SCRIPT SHELL, LES COUPS SPÉCIAUX

Hadouken!

LES BOUCLES

```
#!/bin/bash
    #!/bin/bash
12345
                                                                while true
    for i in 1 2 3 4 5
                                   for i in {1..5}
                                                                do
                                   do
    do
                                                                    statement(s)
                                      echo "Welcome $i times"
       echo "Welcome $i times"
                                   done
                                                                done
    done
 #!/bin/bash
   set counter 'c' to 1 and condition
   c is less than or equal to 5
 for (( c=1; c<=5; c++ ))
 do
    echo "Welcome $c times"
 done
                                PKGS="php7-openssl-7.3.19-r0 php7-common-7.3.19-r0
                                for p in $PKGS
                                do
                                   echo "Installing $p package"
                                   sudo apk add "$p"
                                done
```

https://www.cyberciti.biz/faq/bash-for-loop/

LES CONDITIONS

#!/	/bin/bash
# E	Basic if statement
if	[\$1 -gt 100]
the	en
(echo Hey that\'s a large number.
	pwd
fi	

Operator	Description
! EXPRESSION	The EXPRESSION is false.
-n STRING	The length of STRING is greater than zero.
-z STRING	The lengh of STRING is zero (ie it is empty).
STRING1 = STRING2	STRING1 is equal to STRING2
STRING1 != STRING2	STRING1 is not equal to STRING2
INTEGER1 -eq INTEGER2	INTEGER1 is numerically equal to INTEGER2
INTEGER1 -gt INTEGER2	INTEGER1 is numerically greater than INTEGER2
INTEGER1 -It INTEGER2	INTEGER1 is numerically less than INTEGER2
-d FILE	FILE exists and is a directory.
-e FILE	FILE exists.
-r FILE	FILE exists and the read permission is granted.
-s FILE	FILE exists and it's size is greater than zero (ie. it is not empty).
-w FILE	FILE exists and the write permission is granted.
-x FILE	FILE exists and the execute permission is granted.

CODE DE SORTIE DES COMMANDES

Chaque programme à la fin de son exécution renvoie un code de sortie

- 0 tout va bien
- 1 erreur
- > 1 problème, regarder le manuel pour savoir à quoi correspond l'erreur

Pour connaître le code de sortie, il faut utiliser la variable \$?

From:

https://www.cyberciti.biz/faq/linux-bash-exit-status-set-exit-statusin-bash/

AFFECTER LES VARIABLES

- variables vs environment variables
- export
 - export var="toto"
- affecter la sortie d'une commande à une variable
 - var=\$(ls /tmp)
- interpolation :
 - MY_VAR="42FileChecker"
 - echo "The name of the script is \$MY_VAR"
 - echo "script name \$MY VAR rocks"
 - echo "script_name_\${MY_VAR}_rocks"

https://github.com/jgigault/bash-tips-and-tricks/blob/master
/pages/bash-syntax/variables.md

PASSER DES ARGUMENTS À UN SCRIPT SHELL

3. Positional and special parameters

A shell script or a shell function shall be invoked with a list of arguments. We call it the **positional parameters** which are similar to the pointer to strings 'argv' in a C program. A positional parameter is like a variable whose name is a number other than 0. Calling your script with the command ./my_script "arg1" "arg2" will declare two positional parameters 1 and 2 with the assigned value "arg1" and "arg2":

```
echo "$1"  # displays the first argument --> "arg1"
echo "$2"  # displays the second argument --> "arg2"
```

https://github.com/jgigault/bash-tips-and-tricks/blob/master/pages/bash-syntax/variables.md

EXO

Créons un nouveau script :

- le script prend maintenant un paramètre qui permettra de choisir le répertoire que l'on veut lister
- Si l'utilisateur n'a pas saisi de paramètre, lui en demander un et continuer à le demander tant que rien n'a été saisi
- Vérifier que le paramètre passé est un dossier
- Si ce n'est pas le cas, sortir en erreur 1
- Si c'est le cas, lister le dossier de façon récursive